

M M Abid Naziri

mnaziri@ncsu.edu | github.com/abidnazirisami | abidnazirisami.github.io | linkedin.com/in/abidnazirisami

About Me

PhD Researcher specializing in **Software Testing** for learning-enabled systems. I develop automated testing techniques for Deep Learning Libraries (**PyTorch**, **TensorFlow**) and **Autonomous Driving Systems** in a simulation environment (**CARLA**). I have reported **102** bugs (78 confirmed) to **PyTorch** and **TensorFlow** to date [[list](#)].

Education

NC State University, PhD in Computer Science (4th year)

May 2027 (Expected)

Advisor: Dr. Marcelo d'Amorim

Award: Graduate Merit Award - Summer 2025

Research Projects & Publications

Testing Deep Learning Libraries via Neurosymbolic Constraint Learning

[ICSE 2026 \(Accepted\)](#)

*M M Abid Naziri**, Shinhae Kim*, Feiran Qin, Saikat Dutta, Marcelo d'Amorim

*Equal contribution

Venue: [IEEE/ACM International Conference on Software Engineering \(ICSE 2026\)](#)

Misbehavior Forecasting for Focused Autonomous Driving Systems Testing

[ICSE 2026 \(Accepted\)](#)

M M Abid Naziri, Stefano Carlo Lambertenghi, Andrea Stocco, Marcelo d'Amorim

Venue: [IEEE/ACM International Conference on Software Engineering \(ICSE 2026\)](#) [preprint]

BugsInDLLs: A Database of Reproducible Bugs in Deep Learning Libraries to

[ISSTA 2025](#)

Enable Systematic Evaluation of Testing Techniques

M M Abid Naziri, Aman Kumar Singh, Benjamin Wu, Feiran (Alex) Qin, Saikat Dutta, Marcelo d'Amorim

Venue: [The ACM SIGSOFT International Symposium on Software Testing and Analysis \(ISSTA 2025: Tool Demonstration Track\)](#) [pdf]

Evaluating the Effectiveness of Coverage-Guided Fuzzing for Testing Deep

Submitted

Learning Library APIs

Feiran Qin, *M M Abid Naziri*, Hengyu Ai, Saikat Dutta, Marcelo d'Amorim

[preprint]

Evaluating the Effectiveness of Machine Learning to Improve Deep Learning

Submitted

Library Testing

Facundo Molina, *M M Abid Naziri*, Feiran (Alex) Qin, Alessandra Gorla, Marcelo d'Amorim

Experience

Senior Software Engineer, Enosis Solutions – Dhaka, Bangladesh

Mar 2019 – Jul 2022

- Developed scalable web applications using Vue JS, TypeScript, and ASP.NET Core, including a project management tool deployed to **270** employees and a Welder Management system
- Developed desktop applications DesignCalcs and ProWrite for pressure vessel design, adding features, fixing bugs, and creating unit/regression tests
- Managed CI/CD pipelines, configured testing servers, and ensured smooth system operations
- Operated in an **Agile** development process in a development team of **7** people
- Mentored new recruits, conducted code/design reviews
- Collaborated with clients and team members via **JIRA**

Technologies

Languages: Python, R, C#, Delphi, Java, C/C++, JavaScript, TypeScript, Bash

Technologies: PyTorch, TensorFlow, CARLA Simulator, Docker, Github Actions, ASP.NET Core, React JS, Vue JS, TestComplete, DUnit